

UNOLS - AICC - 2020 Summer Zoom Meeting
 22 June 2020
 1200 Pacific - 1500 Eastern

Doug Russell	Bridget Harrell-Donze	Lee Cooper
Jeffrey Welker	Dave Forcucci	Jackie Grebmeier
Frank Rack	Bailey Miller	Jim Thomson
Carin Ashjian	Ana Aguilar-Islas	LT Bryan Brasher
Anna Schemper	Bob	Steven Hartz
Mike Lomas	Lee Ellet	Robert Edwardson
Ola Persson	Dean Lambert	LCDR Pat Armstrong
Sam Laney	Sam Laney	Rob Sparrock
Renee Crain	CDR Tuckey	Doug Baird
Laurie Juranek	Bob	Andrew Woogen
Kate Ruck	James Swift	Chris Polashenski
Gay Sheffield	Rose Dufour	Scott Harper
Brendon Mendenhall	Frank Rack	Craig Lee
LCDR Denelly	Bob Pickart	Bob Campbell

49 participants

Sam Laney – Intro

Adopt minutes from last meeting as written. Seconded. Voted. Adopted.

Sam Laney - Chair Report –

- UNOLS meeting next month 15 & 16th. I will attend.
- No updates from ongoing cruises due to them being delayed due to pandemic. Two people rotating off AICC this year. Announcement on UNOLS website for new members. We have until August or September to find new members.
- Mike Lomas and Chris Polashenski – Leaving and thanks for all the hare work.

Doug Russell – UNOLS Report

Impact of Corona Virus – Stopped operations around 16 March.

- Brought ships back to US. 30 days and then extended. Developed guidance for restarting science. Guidelines are on the UNOLS website. Low, Medium and High-risk cruises. Only doing low and medium risk at this time. Self-Isolation before cruising. Science slowly restarting in June. Large review with federal agencies. Everyone is on board with guidelines. So far no one has come down with virus on the ships. So far no foreign trips. Worried about a ship getting stuck with nowhere to go if they suddenly have sick people onboard.
- MFP is continuing to develop in spite of the virus. Will be tested at UW and Scripps.

Frank Rack – NSF Update

- Refresh of Stark contract. Received proposal and sent it out for review. Plan is to renew for two years. Then send out a new solicitation and re-compete for new contract.
- NSF still working from home.

Rob Sparrock - ONR

- Craig Lee is doing the Amos cruise this summer.
- Healy cruise of opportunity through NW passage.
- ONR still has interest in the Arctic. Continuing to fund Arctic work.

CDR Tuckey – CG HQ

LCDR Pat Armstrong - CG HQ - Polar Security Cutter (very broken). Dropped offline. Will try to come back to them.

LT Bryan Brasher – US National Ice Center

- Ice concentration and thickness across globe.
- Tailored Support Program – USCG vessels, NOAA vessels
 - Long range 45-day outlook
 - Satellite imagery and spatial analysis
 - Embarked analysts to help analyze ice
- Graphical Tailored Support
 - GIS Format Applications
 - Emerging area: high resolution optical imagery
 - Long Range forecasts
 - 45-day ice thickness outlook
- Eligible to receive Weather Support from the fleet weather center if you affiliated with the government

Doug Russell – Can we post on our website?

Lt Brasher – Yes, this is okay for distribution.

Dave Forcucci – USCGC Healy

Healy 2020 schedule

- u/w July 1 for science shakedown, in US waters for two weeks.
- Mid July they will be in Bering for CG ops. Not on AIS.
- Then ONR cruise around 17 AUG, depart 18 AUG however science party and crew will arrive in Anchorage for two weeks, then Covid testing, then head to Seward just prior to departure. Healy will go towards Kodiak for four days for flight ops. Then they will go to operations area.

Rose Dufour – Who is paying for all of the predeparture costs?

LCDR Dunley – CG paid for hotel rooms for crew, ONR will pay for their team, Stark will pay for their team. CG paying for all Covid testing. CG paying for a rental bus to take them from Anchorage to Seward.

Bailey Miller – Is the Healy doing the NW Passage?

Dave Forcucci – LOI for 2021 Toxic Algal Bloom cruise from this year will move to 2021. Sikuliaq is taking on one Healy cruise from 2020.

Renee Crain – Were they able to do outreach to communities for this year?

Dave – I don't know if Craig did any outreach.

Craig Lee – I need to reach back out and give them an update.

Frank Rack – Anticipating that when you test you will have to wait for results to come back?

CDR Dunley - PacArea – First test before they get on the plane to Alaska. Second test will be on day five or seven while they are quarantining in Anchorage. Third test will be on the last day as they go to the ship.

Doug Baird – 2020 Sikuliaq

- Starting in July Gulf of Alaska. Chukchi Sea. Both projects going Seward to Seward to due to local travel regulations.
- 2021 – four projects in Arctic. Two in Bering in the Spring. Other two in Chukchi Sea & Beaufort Sea.

Rose Dufour – Do you have any back up ports in case you have to pull in?

Doug Baird – If we have to get someone ashore, we are going to have to go straight from ship to airport.

Gay Sheffield – Port of Nome is open. Lots of freighters. Hospital has a plan to deal with anyone coming from a ship.

Anna Schemper – Do you have a defined evac plan?

Doug Baird – We will be following instructions from COTP. We have a landing craft so if there is an airport we can get there.

Anna Schemper – have you had conversations with local communities to discuss how to handle.

Doug – If we have a case on the ship, we are basically done. We will have to go back to Seward to disinfect. And probably the season will be done.

Frank Rack – Rice cruise from Thompson?

Doug Baird– It was postponed due to visa restrictions and travel restrictions

Frank Rack– any info about AWC?

Doug Baird– I haven't heard anything.

Renee Crain – NSF - Arctic Science Section

Development of vessel Matrix –

- Spreadsheet of all vessels going to the Western Arctic

- Early Arctic Waterway meeting. Frustration from local communities of not knowing what vessels were coming.
- 2016 started sharing information of what vessels were going to be in the Western Arctic and what the cruise tracks will be.
- Information about each vessel and how to get in touch with the vessel in case as it goes by communities need to contact the vessel.
- Helps researchers to coordinate

IARPC – Interagency Arctic Research Policy Committee

- Spreadsheet is now mostly put together by a person at NOAA.
- Environmental intelligence CT
- Field operations working group
- Proposed Polar Technology Communications Forum
- Lots of opportunities for people in AICC on IARPC

Armap.org

- Arctic Research Mapping Application now has real-time ship location information

Brendon Mendenhall - Stark Report

USCGC Healy

- Science System Display Infrastructure Updated
- Sensors sent in for maintenance

Lee Ellett Took over presentation due to audio issues

- Pre-season grooming of sensors completed
- New or Replacement systems
 - Fluorometers
 - Anemometer
 - Multibeam computers
 - ADCP computers
- Science system displays have been updated.
- Kongsberg EM122 needs to be replaced in the not too distance future.
 - Kongsberg EM124
 - Plug and play replacement.
 - Does not meet the needs of all projects
 - Kongsberg EM 304
 - Shallower water = better performance
 - Different transducers, different footprint and different ice windows.
 - Smaller electronics
- Seeking input from community on the best way forward on this project.

Frank Rack – When is drydock scheduled for Healy?

LCDR Dunley – FY 2022 Jan to May

Dave Forcucci – Scheduled drydock was cancelled in 2021.

LCDR Dunley – Canceled due to contractual issues.

Frank Rack – Asking since we will need to update the multibeam. Can we get it done in the next drydock.

LCDR Dunley – there is still time but need to do asap

OLA Persson – Anemometer replaced?

Brandon – RM Young experienced severe freezing. Internal heaters were not up for the job. Winter AICC meeting recommend replacing with Metek anemometer. Easy integration into our meteorological system. Chose to install them port and stbd on the main mast. RM Youngs are staying on forward jack staff.

Frank Rack – Go back to drydock schedule. How soon do you need info for drydock?

LCDR – Sep or Oct

Frank Rack – We need to decide multibeam replacement in the next couple of months.

Sam Laney – I think that is doable. We need to plan a specific meeting to discuss future of acoustics on Healy.

Sarah Fuller – USCG - C4IT

- New person Dean Lambert
- Compliance with FCC standards almost. Off season project for next year.
- Satellites dishes are coming up on end of life, so we are researching replacements.

Steve Hartz – UAF

Technical Report on Sikuliaq

- We were able to get a lot done, dockside at UW. And more got completed after our transit to Alaska.
 - Awarded funding for network refresh and VM cluster
 - Installed traction winch sheaves
 - Installed .681 fiber optic cable
 - Lubed tension members
 - Added a winch control station in the computer lab
 - Serviced CTD LHS
 - Serviced Rapp drum winch band brakes and cylinders
 - Installed UHF-TCP/IP Bridget
 - Upgraded flow through system node
 - Installed new Tekron Time Servers
 - Replaced 4-25 kHz transducer on the centerboard
 - Installed an ice guard over the transducer
 - Include GNSS raw phase data into Sikuliaq data distribution
 - Acquired new overboard sheaves for .681 fiber optic and 9/16 tri-wire
 - Moving ship ops website
 - Service PCO2 flow Control valve
 - Service Gravimeter
 - Installed new multifunction printers
 - Upgraded CCTV system

- Patch test EM301 and EM710 sonar arrays
- Switched over Fleet Express service provider to MarLink
- Calibrate EK80 ran into a few snags.

Ola – were you able to get EK80 calibration completed

Steven – No, not yet. We need to get the targets further away from the hull. We plan on completing this summer

Rob Edwardson – USCG - Tribal Liaison

- Snapshot of CG activity in Alaska.
 - Community relation trips have not happened since the beginning of Covid.
 - Northern and Western Alaska – Arctic Shield – Seasonal operations – LE and Marine Safety – Facility and ship inspections – concern to take Covid to communities that don't have medical – pared down to activities are most important – teams are now reaching out to communities and tribes concerning travel arrangements – Covid tests for CG personnel – pilots
- Travel restrictions for state are not set in stone. Have changed several times in the last few months. Communities are working together and planning together. Communities can set up their own travel restrictions.

Phil McGillivray – Healy NW Passage 2021 Trip

- Healy going through NW Passage next year. Tribal Contacts.
- Distribution of communities and research stations along NWP
 - Canadian National Recommendations.
 - Federal permits are required.
 - local permits
- Ikaarvik Project 2010 – bridges – between researchers and Nunavut Arctic communities.
- Quintillion Fiber Optic Cable Route
- Marine Protected areas along the NWP

Sam Laney – New Business

Not going to finish today.

Ens. Lamén – USCG - Marine Science Officer.

- Healy two-minute update.
- Successful maintenance period.
 - Dynamic positioning
 - Aviation certification
- Loading science gear and fueling ship.
- Covid management –
 - Depart Seattle – staying in US waters.
 - Shakedown cruise and quarantining crew.

- Seward – two week isolation period prior to embarking ship. Point to point busing to ship.
- Depart Seward – week long observation/isolation. If anyone has symptoms we will have to return to port.

Dave Forcucci – USCG – Science Liaison

- Cruises of Opportunity 2021
- Healy two legs that will take place next year.
- AICC role in this activity.
- Healy going East next year.
 - Mission for NSF in West Arctic.
 - NWP.
 - Nuuk.
 - Science of Opportunity.
 - Baffin Bay. 30- 40 days.
- Announcement on UNOLS website. Will collect data during NWP transit. Will invite scientist onboard to do passive science during the passage.
- Have received a couple of STR of NWP. One STR and one letter of interest for Baffin Bay.
- Return is not decided yet. Could be NWP or Panama Canal.

Lee Cooper – wouldn't hurt to coordinate with admundson science. They might be in Baffin Bay at the same time.

Dave Forcucci – Canadian scientist will be collaborating as well.

Sam Laney – Closing

- Would like to have third meeting this year.
 - September or early October.
- Doug and I will do a doodle to see is available and when.
- Would like to hear reports from the working groups we have started.

Action Items:

1. Doodle poll to see when to have third AICC meeting of the year. – Doug Russell
2. Plan a specific meeting to discuss future of acoustics on Healy, replacement for the multibeam. - Sam Laney / Doug Russell